

interference search

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| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--------------------|------------------|---------|------------------|
| L1 | 6 | (user adj (identification id identifier) and encrypt\$3 adj key and record\$3 and player).clm. | US-PGPUB; USPAT | OR | ON | 2007/02/04 17:10 |


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1 [Link and channel measurement: A simple mechanism for capturing and replaying](#)



[wireless channels](#)

Glenn Judd, Peter Steenkiste

 August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**

Publisher: ACM Press

 Full text available: [pdf\(6.06 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

2 [Physical privacy: Privacy management for portable recording devices](#)



J. Alex Halderman, Brent Waters, Edward W. Felten

 October 2004 **Proceedings of the 2004 ACM workshop on Privacy in the electronic society WPES '04**

Publisher: ACM Press

 Full text available: [pdf\(321.69 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The growing popularity of inexpensive, portable recording devices, such as cellular phone cameras and compact digital audio recorders, presents a significant new threat to privacy. We propose a set of technologies that can be integrated into recording devices to provide stronger, more accurately targeted privacy protections than other legal and technical measures now under consideration. Our design is based on an informed consent principle, which it supports by the use of novel devices and pr ...

Keywords: camera phones, privacy, recording devices

3 [VARIATIONS: a digital music library system at Indiana University](#)



Jon W. Dunn, Constance A. Mayer

 August 1999 **Proceedings of the fourth ACM conference on Digital libraries DL '99**

Publisher: ACM Press

Full text available:  [pdf\(122.41 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: digital audio, digital libraries, music libraries

4 Architecture: Graceful infringement reactions in DRM systems



Stefan Katzenbeisser, Klaus Kursawe, Joop Talstra

October 2006 **Proceedings of the ACM workshop on Digital rights management DRM '06**

Publisher: ACM Press

Full text available:  [pdf\(220.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose an alternative DRM technology for next-generation optical media. Instead of implementing a hard access control mechanism, we propose a scheme that monitors the behavior of users in a privacy-preserving manner, detects potential infringement actions and reacts in a graceful way, which is dependent on the severity of infringements. The scheme is based on blacklists of known unauthorized content and compromised players, which are maintained by content providers and shipped ...

Keywords: DRM, device revocation, perceptual hashes, watermarking


5 Managing stored voice in the Etherphone system



Douglas B. Terry, Daniel C. Swinehart

February 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(2.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The voice manager in the Etherphone system provides facilities for recording, editing, and playing stored voice in a distributed personal-computing environment. It provides the basis for applications such as voice mail, annotation of multimedia documents, and voice editing using standard text-editing techniques. To facilitate sharing, the voice manager stores voice on a special voice file server that is accessible via the local internet. Operations for editing a passage of ...

6 Copyrights and access-rights: How DRM-based content delivery systems disrupt expectations of "personal use"



Deirdre K. Mulligan, John Han, Aaron J. Burstein

October 2003 **Proceedings of the 3rd ACM workshop on Digital rights management DRM '03**

Publisher: ACM Press

Full text available:  [pdf\(416.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We set out to examine whether current, DRM-based online offerings of music and movies accord with consumers' current expectations regarding the personal use of copyrighted works by studying the behavior of six music, and two film online distribution services. We find that, for the most part, the services examined do not accord with expectations of personal use. The DRM-based services studied restrict personal use in a manner inconsistent with the norms and expectations governing the purchase and ...


Keywords: access control, content distribution, copyright, digital rights management, fair use, personal use, privacy

7 Digital rights management for content distribution

Qiong Liu, Reihaneh Safavi-Naini, Nicholas Paul Sheppard

January 2003 **Proceedings of the Australasian information security workshop
conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**


Publisher: Australian Computer Society, Inc.

Full text available:  [pdf\(224.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Transferring the traditional business model for selling digital goods linked to physical media to the online world leads to the need for a system to protect digital intellectual property. Digital Rights Management(DRM) is a system to protect high-value digital assets and control the distribution and usage of those digital assets. This paper presents a review of the current state of DRM, focusing on security technologies, underlying legal implications and main obstacles to DRM deployment with the ...


Keywords: DRM, digital content

8 Session 4: Total recall: are privacy changes inevitable?

 William C. Cheng, Leana Golubchik, David G. Kay

October 2004 **Proceedings of the the 1st ACM workshop on Continuous archival and retrieval of personal experiences CARPE'04**


Publisher: ACM Press

Full text available:  [pdf\(108.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Total Recall is a system that records an individual perspective of the world using personal sensors such as a microphone in a pair of glasses or a camera in a necklace. There are many applications of Total Recall -- patients accurately recording what they've recently eaten, students replaying any part of a class, and so on--that can significantly improve people's quality of life. However, data recorded by such a system may be also used by the judicial system without the consent of the user or ...


Keywords: personal sensors, privacy, record and playback

9 Future of intellectual property: How copyright became controversial

 Drew Clark

April 2002 **Proceedings of the 12th annual conference on Computers, freedom and privacy CFP '02**


Publisher: ACM Press

Full text available:  [pdf\(52.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

How did copyright become controversial? In a phrase, the Digital Millennium Copyright Act (DMCA). Although many of legal controversies that have swirled since its October 1998 passage trace their roots to other elements of copyright law, the DMCA created a new feature in copyright law that has crystallized why so many academics, librarians, computer users, and technology entrepreneurs object to what they regard as the overreaching nature of copyright law.

This signal feature ...

10 A secure multicast protocol with copyright protection

 Hao-hua Chu, Lintian Qiao, Klara Nahrstedt, Hua Wang, Ritesh Jain

April 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 2

Publisher: ACM Press

Full text available:  pdf(301.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a simple, efficient, and secure multicast protocol with copyright protection in an open and insecure network environment. There is a wide variety of multimedia applications that can benefit from using our secure multicast protocol, e.g., the commercial pay-per-view video multicast, or highly secure military intelligence video conference. Our secure multicast protocol is designed to achieve the following goals. (1) It can run in any open network environment. It does not rely on any sec ...


Keywords: copyright protection, key distribution, multicast security, watermark

11 DRM experience: Analysis of security vulnerabilities in the movie production and distribution process



Simon Byers, Lorrie Cranor, Dave Korman, Patrick McDaniel, Eric Cronin
October 2003 **Proceedings of the 3rd ACM workshop on Digital rights management DRM '03**

Publisher: ACM Press

Full text available:  pdf(285.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Unauthorized copying of movies is a major concern for the motion picture industry. While unauthorized copies of movies have been distributed via portable physical media for some time, low-cost, high-bandwidth Internet connections and peer-to-peer file sharing networks provide highly efficient distribution media. Many movies are showing up on file sharing networks shortly after, and in some cases prior to, theatrical release. It has been argued that the availability of unauthorized copies directl ...


Keywords: digital rights management, file sharing, insider attacks, multimedia, physical security, policy

12 Speech and audio in window systems: when will they happen?



B. Arons, C. Schmandt, M. Hawley, H. Ludwig, P. Zellweger
July 1989 **ACM SIGGRAPH Computer Graphics , ACM SIGGRAPH 89 Panel Proceedings SIGGRAPH '89**, Volume 23 Issue 5

Publisher: ACM Press

Full text available:  pdf(2.78 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Good afternoon. Boy, I can't see anything out there. I assume you all can see me -- thats why these lights are here. My name is Chris Schmandt from the Media Lab at MIT. I'm co-chairing this panel with Barry Arons, who is sitting over here. It's actually quite a pleasure to co-chair this panel with Barry. We've been working together off and on for more years than I care to remember.

This panel has a long ridiculous name. Basically it's about audio and window systems and work ...

13 Digital rights management & protecting the digital media value chain



Marvin L. Smith
October 2004 **Proceedings of the 3rd international conference on Mobile and ubiquitous multimedia MUM '04**

Publisher: ACM Press

Full text available:  pdf(95.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Digital media that is readily & illegally distributed over the Internet and related digital networks has posed major problems for the members of the digital media value chain.

Ubiquitous mobile communication devices such as media capable handsets and PDAs have made the problem even larger. Technical approaches to controlling illegal distribution---commonly known as Digital Rights Management (DRM)---have been varied and inconsistent since the shift from analogue media to digital media; but in rec ...

Keywords: combined delivery, digital media, digital rights management (DRM), forward lock, open mobile alliance (OMA), rights expression language (REL), separate delivery

14 Visualizing Competitive Behaviors in Multi-User Virtual Environments

Nate Hoobler, Greg Humphreys, Maneesh Agrawala

October 2004 **Proceedings of the conference on Visualization '04 VIS '04**

Publisher: IEEE Computer Society

Full text available:  [pdf\(510.01 KB\)](#) Additional Information: [full citation](#), [abstract](#)

We present a system for enhancing observation of user interactions in virtual environments. In particular, we focus on analyzing behavior patterns in the popular team-based first-person perspective game Return to Castle Wolfenstein: Enemy Territory. This game belongs to a genre characterized by two moderate-sized teams (usually 6 to 12 players each) competing over a set of objectives. Our system allows spectators to visualize global features such as large-scale behaviors and team strategies, as ...

Keywords: Visualization, Games, Spectating

15 Applications and user studies: Enhancing end-user experience in a multi-device ecosystem



Mejdi Trimeche, Riku Suomela, Antti Aaltonen, Gaetan Lorho, Tai Dossaji, Tomi Aarnio, Samuli Tuoriniemi

December 2005 **Proceedings of the 4th international conference on Mobile and ubiquitous multimedia MUM '05**

Publisher: ACM Press

Full text available:  [pdf\(305.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

A person may use many devices capable of rendering digital content on a regular basis. For instance, the user is in front of a large TV screen, and soon he or she moves away from the TV and wants to continue the media consumption. The transfer of media content across devices needs to be handled seamlessly. In this paper, we present a phone-centric approach to improve the end-user experience in multi-device ecosystem. Together with predefined parameters, we use context information to trigger cont ...

Keywords: adaptation engine, content adaptation, end-user experience, mobile context

16 Mixed reality entertainment (MMEC 2005 Keynote Presentation): Social and physical interactive paradigms for mixed-reality entertainment



Adrian David Cheok, Keng Soon Teh, Ta Huynh Duy Nguyen, Tran Cong Thien Qul, Shang Ping Lee, Wei Liu, Cheng Cchen Li, Diego Diaz, Clara Boj

April 2006 **Computers in Entertainment (CIE)**, Volume 4 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(808.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article outlines an overview of new paradigms in social and physical interaction in mixed-reality entertainment. Social and physical interactions are constrained, and thus natural interactions are lost in most current digital entertainment systems. In order to regain natural interactions, we argue that mixed-reality technology has great potential for promoting social and physical interactions. In this article we present five research

prototype systems, Magic Land, Human Pacman, Kyoto Garden ...

Keywords: mixed-reality entertainment, multiuser games, role-play, social and physical interaction

17 Content protection: The advanced access content system's use of digital



watermarking

Jeffrey Lotspiech

October 2006 **Proceedings of the 4th ACM international workshop on Contents protection and security MCPS '06**

Publisher: ACM Press

Full text available: pdf(83.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Advanced Access Content System (AACS) is the copy protection scheme for the new generation of high-definition DVD movies. Fundamentally, AACS is based on cryptographic principles. However, it has found a limited use for digital watermarking: first for playback control, and then, to a lesser extent, for forensics. This paper characterizes the forensic approach, and then describes AACS's "theatrical" and "consumer" watermarks and how they are used.

Keywords: AACS, broadcast encryption, content protection, encryption, piracy, revocation, tracing, watermarking

18 Security: Key-assignment strategies for CPPM



André Adelsbach, Jörg Schwenk

September 2004 **Proceedings of the 2004 workshop on Multimedia and security MM&Sec '04**

Publisher: ACM Press

Full text available: pdf(454.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

CSS, the first system to protect multimedia content on the new DVD medium failed badly, because both its encryption algorithm and its key management could easily be broken. A new industry initiative, the 4C Entity, LLC (founded by IBM, Intel, Matsushita and Toshiba), presents a more mature approach, called "Copy Protection for Pre-recorded Media" (CPPM), which has already been adopted in DVD-Audio. A key-feature of CPPM is its advanced key-management, which allows for system renewability by revoking ...

Keywords: CPPM, content protection, device revocation, key-assignment, key-management

19 Public records "how public is too public? public records and personal privacy": Fact or fiction: privacy in American libraries



Carrie Gardner

April 2002 **Proceedings of the 12th annual conference on Computers, freedom and privacy CFP '02**

Publisher: ACM Press

Full text available: pdf(27.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

If this nation is to be wise as well as strong, if we are to achieve our destiny, then we need more new ideas for more wise men reading more good books in more public libraries. These libraries should be open to all except the censor. We must know all the facts and hear all the alternatives and listen to all the criticisms. Let us welcome controversial books and controversial authors. For the Bill of Rights is the guardian of our security as well as our Liberty. John F. Kennedy

20 Systems: Securing sensitive content in a view-only file system

Kevin Borders, Xin Zhao, Atul Prakash

October 2006 **Proceedings of the ACM workshop on Digital rights management DRM '06****Publisher:** ACM PressFull text available: [pdf\(357.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the most fundamental problems in computer security is protecting sensitive digital information from unauthorized disclosure. There are a number of challenges, such as spyware, removable media, and mobile devices, which make this a very hard problem. The problem becomes even more difficult when the adversary is somebody who is authorized to view the data. This is what is commonly referred to as an insider information leak. Insider leaks often occur out of malice, but sometimes are just due ...

Keywords: digital rights management, file systems, information leakage, insider abuse, virtual machines

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| L1 | 6 | (user adj (identification id identifier) and encrypt\$3 adj key and record\$3 and player).clm. | US-PGPUB; USPAT | OR | ON | 2007/02/04 17:10 |
| S1 | 667 | (713/193).CCLS. | USPAT; USOCR | OR | OFF | 2007/02/04 17:09 |
| S2 | 347 | (713/171).CCLS. | USPAT; USOCR | OR | OFF | 2006/05/31 17:35 |
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| S5 | 3 | (player recorder recording adj medium) same (encrypt\$3 scrambl\$3 cipher\$3 encipher\$3) same (playback play adj back) same (encrypt\$3) with (user adj (identification identifier)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/31 20:41 |
| S6 | 0 | kupka-michael.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/31 20:41 |
| S7 | 317 | kupka.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/31 20:42 |
| S8 | 5 | kupka.in. and hawkins.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/31 21:26 |
| S9 | 917 | (713/182).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/05/31 21:27 |
| S10 | 1 | ("6170061").PN. | USPAT; USOCR | OR | OFF | 2006/06/01 15:27 |

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| S12 | 1 | ("6070246").PN. | USPAT; USOCR | OR | OFF | 2006/06/01 22:42 |
| S13 | 1 | ("6381682").PN. | USPAT; USOCR | OR | OFF | 2006/06/02 13:56 |
| S14 | 2 | ("2717847").PN. | USPAT; USOCR | OR | OFF | 2006/06/02 16:09 |
| S15 | 1 | ("20020124182").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/06/02 16:10 |
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| S17 | 2 | ((("20040088544") or ("20040085955")).PN. | US-PGPUB; USPAT | OR | OFF | 2006/06/02 21:19 |
| S18 | 0 | ("20020004884").PN. | USPAT; USOCR | OR | OFF | 2006/09/25 14:39 |
| S19 | 1 | ("20020004884").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/25 14:39 |
| S20 | 6 | ((("20020004884") or ("6,170,060") or ("6,453,369") or ("6,681,015") or ("6,738,877") or ("5,596,639")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/26 13:00 |
| S21 | 0 | masaki-mochizuki.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/26 13:01 |
| S22 | 97 | mochizuki-masaki.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/26 13:01 |
| S23 | 5 | ("4757534" "5392351" "5400319" "5881038" "5886979").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/09/26 13:03 |
| S24 | 108 | ("4757534").URPN. | USPAT | OR | ON | 2006/09/26 13:15 |
| S25 | 5 | naruki-hidetoshi.in. | USPAT | OR | ON | 2006/09/26 13:16 |
| S26 | 10 | naruki-hidetoshi.in. | US-PGPUB; USPAT | OR | ON | 2006/09/26 13:16 |

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| S30 | 113 | kupka.in. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/09/26 15:00 |
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| S32 | 0 | kupka.in. and (compound adj key).ti. | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/26 15:01 |

EAST Search History

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|-----|-----|---|---|----|-----|------------------|
| S33 | 2 | kupka.in. and (compound adj key) | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/10/03 14:47 |
| S34 | 778 | ((713/171) or (713/191)).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/09/26 15:27 |
| S35 | 58 | S34 and (@pd > "20060601") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/26 15:27 |
| S36 | 1 | ("20030221113").PN. | US-PGPUB; USPAT | OR | OFF | 2006/09/27 13:24 |
| S37 | 2 | ("2003/0221113").URPN. | USPAT | OR | ON | 2006/09/27 14:06 |
| S38 | 493 | (encrypt\$3 scrambl\$3) near5 user adj (information name id password) | USPAT | OR | ON | 2006/09/27 14:07 |
| S39 | 186 | (encrypt\$3 scrambl\$3) near5 user adj (information name id password) same (transmit\$4 send\$3 exchang\$3) | USPAT | OR | ON | 2006/09/27 14:09 |
| S40 | 83 | (encrypt\$3 scrambl\$3) near5 user adj (information name id password) same (transmit\$4 send\$3 exchang\$3) same (record\$3 sav\$3 stor\$3) | USPAT | OR | ON | 2006/09/29 17:08 |
| S41 | 0 | (encrypt\$3 scrambl\$3) near5 user adj (information name id password) same (transmit\$4 send\$3 exchang\$3) same (record\$3 sav\$3 stor\$3) same player | USPAT | OR | ON | 2006/09/27 14:18 |
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| S46 | 41 | ("5751813").URPN. | USPAT | OR | ON | 2006/09/27 14:35 |

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| S47 | 843 | (encrypt\$3 scrambl\$3) near5 (user adj (information name id identifier) username password) same (transmit\$4 send\$3 exchang\$3) | USPAT | OR | ON | 2006/09/29 17:11 |
| S48 | 535 | (encrypt\$3 scrambl\$3) near5 (user adj (information name id identifier) username password) with (transmi\$5 send\$3 exchang\$3) | USPAT | OR | ON | 2006/09/29 17:13 |
| S49 | 237 | (encrypt\$3 scrambl\$3) near5 (user adj (information name id identifier) username password) same ((transmi\$5 send\$3 exchang\$3) with (encrypt\$3 scrambl\$3 public secret) adj key) | USPAT | OR | ON | 2006/09/29 18:00 |
| S50 | 1463 | (playback) and (encrypt\$3 scrambl\$3) and record\$3 and (user adj (id identification identifier name)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/09/29 18:02 |
| S51 | 854 | player and (playback) and (encrypt\$3 scrambl\$3) and record\$3 and (user adj (id identification identifier name)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/10/05 12:42 |
| S52 | 277 | player and (playback) and (encrypt\$3 scrambl\$3) and record\$3 and (user adj (id identification identifier name)) | USPAT | OR | ON | 2006/09/29 18:21 |
| S53 | 2 | recording adj medium with contain\$3 with user adj (id identifier identification name) | USPAT | OR | ON | 2006/09/29 18:24 |
| S54 | 8 | player same (playback play adj back) same (user adj (id identifier identification name) username) | USPAT | OR | ON | 2006/09/29 18:25 |
| S55 | 75 | ("6385596").URPN. | USPAT | OR | ON | 2006/10/02 15:04 |
| S56 | 2 | kupka.in. and (compound adj key) | US-PGPUB; USPAT | OR | ON | 2006/10/03 15:09 |
| S57 | 1 | ("6507909").PN. | US-PGPUB; USPAT | OR | OFF | 2006/10/03 15:09 |
| S58 | 5 | player and (playback) same (encrypt\$3 scrambl\$3) same record\$3 same (user adj (id identification identifier name)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/10/05 12:42 |

EAST Search History

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|-----|-----|--|---|----|-----|------------------|
| S59 | 40 | (playback) same (encrypt\$3 scrambl\$3) same (user adj (id identification identifier name)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/10/05 13:21 |
| S60 | 843 | ((713/171) or (713/191)).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/02/02 13:28 |
| S61 | 59 | S60 and (@pd > "20061005") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/02 13:28 |
| S62 | 7 | ("5457680" "5592466" "6167389" "6282519" "6317835" "6496479" "6654346").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/02/02 13:39 |
| S63 | 0 | ("7131006").URPN. | USPAT | OR | ON | 2007/02/02 13:51 |
| S64 | 18 | ("20030033522" "4888800" "4941176" "4993069" "5091942" "5239294" "5241598" "5506905" "5604802" "5915021" "5940512" "5991407" "6240514" "6243811" "6463055" "6574730" "6600917" "6711400").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/02/02 13:51 |